## FDOTSS4 Design and 3D Modeling Urban Driveways



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**October 7, 2015** 

#### Session Overview

- In this webinar, we will discuss two methods for modeling driveways for an urban design project and the advantages or disadvantages of each.
- The methods include:
  - Driveway Template Components
  - ✓ 3D Urban Driveway Civil Cell

### Driveway Template Components

- Steps to Configure
  - 1. Place Reference Line (ConstLines)
    - Left Side of Driveway
  - 2. Place 2D Urban Driveway Civil Cell
    - Modify as needed, Clean Linework
  - 3. Copy Driveway > Modeling template from FDOT
  - 4. Set Curb Parent/Child Relationship for project template
  - 5. Add Drop Curb Driveway template to project template
    - Change Utility and SW widths to match project template
    - Check HFC targets and ranges
    - Add End Conditions/Tie Down Slab
    - Check Display Rule for Utility Strip change value to .05
  - 6. Change Project Design Stage Settings
    - Set Preliminary multiplier to 1 and Template Interval to 2
  - Synchronize Template Drops

### Driveway Template Components

- Steps to Configure
  - 8. Add Corridor References
    - Driveway and Curb Face lines
  - Re-Apply Superelevation Point Control
  - 10. Add Profile to BSW lines
    - Use Project Profile to Element
    - Select Model 3D lines then Plan 2D lines
    - Add line at Driveway Location
  - 11. Add Vertical Point Control for Driveway Template
    - BSW vertical from Profile

### 3D Urban Driveway Civil Cell

- Steps to Configure
  - 1. Place Reference Line (ConstLines)
    - Left Side of Driveway
    - Along the EOP
  - 2. Add Profile to EOP and BSW lines
    - Use Project Profile to Element
    - Select Model 3D lines then Plan 2D lines
  - 3. Place 3D Urban Driveway Civil Cell
    - Modify as needed
  - 4. Add Corridor Clipping References
    - Drop Curb Linear Template
    - TieDown Slab Linear Template
    - DTMProposed Driveway Terrain
  - 5. Modify Main Curb Back Top width (Tolerance for clipping)
  - 6. Add Superelevation Point Control to Project

#### Session Overview

- Driveway Template Components Advantages
  - Faster Processing
  - Disadvantages
    - More setup
    - Tighter Intervals
    - Gaps

#### Session Overview

- 3D Urban Driveway Civil Cell
  - ✓ Advantages
    - Less setup
  - Disadvantages
    - Slower Processing
    - Corridor Clipping Objects
    - No Gaps

# Summary:

Method	Component Templates	3D Civil Cell
Setup	MORE!	Less
Processing Time	Less	MORE!
Gaps	Equal to Interval	None
Corridor Objects	PC and HFC's	Clipping

#### **QUESTIONS AND COMMENTS**

Thank you for attending!

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